

ENVIRONMENTAL MONITORING REPORT

June, 2024

PROJECT: REDI IRON ORE MINE (Block -1)
village Redi, Vengurla taluka, Sindhudurg district,
Maharashtra State.

Lessee: M/S. GOGTE MINERALS
BELAGAVI
KARNATAKA

ENVIRONMENTAL LABORATORY
(Unit of Mineral Engineering Services)
(Accredited by NABL &, MOEF&CC Under E(P) 1986)
#948, 2nd Cross, Kammanahalli Main Road,
St Thomas Town Post, Bangalore- 560 084, Karnataka,

LIST OF TABLES

SL. NO.	PARTICULARS	TABLE NO.
1	Test Report of Ambient Air Quality	1 to 5
2	Analysis Report of Ambient Air Quality (Transportation Route)	6 & 7
3	Statistical Ambient Air Quality Report	8
4	Water Test Report As per GSR-422E	9
5	Water Test Report As per IS 2296	10
6	Sewage Water Test Report	11



ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES LLP)

Recognised by BIS, FSSAI, ISO:45001:2018 Certified Laboratory

Recognised by MoEFCC(CPCB) under E(P) Act 1986 recognition valid upto 23.05.2025

TEST REPORT

Table No. 1

AMBIENT AIR QUALITY

Name of the Client : M/s. Gogte Minerals
 Name of the Project : Redi Iron Ore Mine (203)
 Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)
 Station at & Code : A1 - Core Zone Near Mine Office
 Duration : 24 Hrs
 Issue Date : 03.07.2024
 Reference IS 5182 & Lab SOP

Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)	Ammonia (NH ₃), µg/m ³	Benzene (C ₆ H ₆), µg/m ³
07.06.2024	N/24/06/2-0160	6	10	41	27	<20	<1
08.06.2024	N/24/06/3-0072	7	12	39	22	<20	<1
14.06.2024	N/24/06/4-0177	6	10	44	26	<20	<1
15.06.2024	N/24/06/4-0214	7	11	53	28	<20	<1
17.06.2024	N/24/06/5-0029	6	10	58	32	<20	<1
18.06.2024	N/24/06/5-0070	9	10	47	28	<20	<1
24.06.2024	N/24/06/5-0392	6	9	36	20	<20	<1
25.06.2024	N/24/06/5-0503	8	10	41	26	<20	<1
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	400 24 Hrs	5 Annual

Date of Sampling	Lab Code	Lead (Pb), µg/m ³	Nickel (Ni), ng/m ³	Arsenic (As), ng/m ³	Benzo(a) Pyrene (BaP), ng/m ³	Carbon Monoxide* (CO), mg/m ³	Ozone* (O ₃), µg/m ³
07.06.2024	N/24/06/2-0160	0.17	<0.1	<0.5	<0.5	0.24	<20
08.06.2024	N/24/06/3-0072	0.22	<0.1	<0.5	<0.5	0.25	22
14.06.2024	N/24/06/4-0177	0.16	<0.1	<0.5	<0.5	0.20	23
15.06.2024	N/24/06/4-0214	0.18	<0.1	<0.5	<0.5	0.24	22
17.06.2024	N/24/06/5-0029	0.22	<0.1	<0.5	<0.5	0.31	28
18.06.2024	N/24/06/5-0070	0.13	<0.1	<0.5	<0.5	0.27	21
24.06.2024	N/24/06/5-0392	0.14	<0.1	<0.5	<0.5	0.26	23
25.06.2024	N/24/06/5-0503	0.25	<0.1	<0.5	<0.5	0.22	22
Limits for Industrial , Residential, Rural and other Areas		1.0 24 Hrs	20 Annual	6 Annual	1 Annual	4 1 Hr	180 1 Hr

Note : * Parameters monitored for period of 1 hr

Arshiya Kousar

ARSHIYA KOUSAR
Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.
Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES LLP)

Recognised by BIS, FSSAI, ISO:45001:2018 Certified Laboratory

Recognised by MoEFCC(CPCB) under E(P) Act 1986 recognition valid upto 23.05.2025

TEST REPORT

Table No. 2

AMBIENT AIR QUALITY

Name of the Client : M/s. Gogte Minerals
 Name of the Project : Redi Iron Ore Mine (203)
 Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)
 Station at & Code : A2 - Redi village
 Duration : 24 Hrs
 Issue Date : 03.07.2024
 Reference IS 5182 & Lab SOP

Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)	Ammonia (NH ₃), µg/m ³	Benzene (C ₆ H ₆), µg/m ³
07.06.2024	N/24/06/2-0161	7	9	53	27	<20	<1
08.06.2024	N/24/06/3-0073	6	11	40	24	<20	<1
14.06.2024	N/24/06/4-0178	6	9	30	18	<20	<1
15.06.2024	N/24/06/4-0215	11	12	49	26	<20	<1
17.06.2024	N/24/06/5-0030	6	12	54	27	<20	<1
18.06.2024	N/24/06/5-0071	11	13	52	30	<20	<1
24.06.2024	N/24/06/5-0393	13	14	36	20	<20	<1
25.06.2024	N/24/06/5-0504	9	11	38	21	<20	<1
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	400 24 Hrs	5 Annual

Date of Sampling	Lab Code	Lead (Pb), µg/m ³	Nickel (Ni), ng/m ³	Arsenic (As), ng/m ³	Benzo(a) Pyrene (BaP), ng/m ³	Carbon Monoxide* (CO), mg/m ³	Ozone* (O ₃), µg/m ³
07.06.2024	N/24/06/2-0161	0.22	<0.1	<0.5	<0.5	0.31	21
08.06.2024	N/24/06/3-0073	0.24	<0.1	<0.5	<0.5	0.24	<20
14.06.2024	N/24/06/4-0178	0.13	<0.1	<0.5	<0.5	0.23	20
15.06.2024	N/24/06/4-0215	0.15	<0.1	<0.5	<0.5	0.26	24
17.06.2024	N/24/06/5-0030	0.17	<0.1	<0.5	<0.5	0.20	20
18.06.2024	N/24/06/5-0071	0.11	<0.1	<0.5	<0.5	0.25	23
24.06.2024	N/24/06/5-0393	0.15	<0.1	<0.5	<0.5	0.31	21
25.06.2024	N/24/06/5-0504	0.13	<0.1	<0.5	<0.5	0.22	<20
Limits for Industrial , Residential, Rural and other Areas		1.0 24 Hrs	20 Annual	6 Annual	1 Annual	4 1 Hr	180 1 Hr

Note : * Parameters monitored for period of 1 hr

Arshiya Kousar
 ARSHIYA KOUSAR
 Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.
 Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES LLP)

Recognised by BIS, FSSAI, ISO:45001:2018 Certified Laboratory

Recognised by MoEFCC(CPCB) under E(P) Act 1986 recognition valid upto 23.05.2025

TEST REPORT

Table No. 3

AMBIENT AIR QUALITY

Name of the Client : M/s. Gogte Minerals
 Name of the Project : Redi Iron Ore Mine (203)
 Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)
 Station at & Code : A3 - Shiroda village
 Duration : 24 Hrs
 Issue Date : 03.07.2024
 Reference IS 5182 & Lab SOP

Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)	Ammonia (NH ₃), µg/m ³	Benzene (C ₆ H ₆), µg/m ³
07.06.2024	N/24/06/2-0162	11	12	50	27	<20	<1
08.06.2024	N/24/06/3-0074	7	11	40	21	<20	<1
14.06.2024	N/24/06/4-0179	10	12	43	15	<20	<1
15.06.2024	N/24/06/4-0216	7	10	51	22	<20	<1
17.06.2024	N/24/06/5-0031	11	13	41	23	<20	<1
18.06.2024	N/24/06/5-0072	7	9	40	25	<20	<1
24.06.2024	N/24/06/5-0394	6	10	53	28	<20	<1
25.06.2024	N/24/06/5-0505	10	11	46	26	<20	<1
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	400 24 Hrs	5 Annual

Date of Sampling	Lab Code	Lead (Pb), µg/m ³	Nickel (Ni), ng/m ³	Arsenic (As), ng/m ³	Benzo(a) Pyrene (BaP), ng/m ³	Carbon Monoxide* (CO), mg/m ³	Ozone* (O ₃), µg/m ³
07.06.2024	N/24/06/2-0162	0.18	<0.1	<0.5	<0.5	0.32	20
08.06.2024	N/24/06/3-0074	0.16	<0.1	<0.5	<0.5	0.25	21
14.06.2024	N/24/06/4-0179	0.27	<0.1	<0.5	<0.5	0.33	24
15.06.2024	N/24/06/4-0216	0.10	<0.1	<0.5	<0.5	0.41	23
17.06.2024	N/24/06/5-0031	0.18	<0.1	<0.5	<0.5	0.28	<20
18.06.2024	N/24/06/5-0072	0.11	<0.1	<0.5	<0.5	0.25	20
24.06.2024	N/24/06/5-0394	0.12	<0.1	<0.5	<0.5	0.27	23
25.06.2024	N/24/06/5-0505	0.15	<0.1	<0.5	<0.5	0.31	20
Limits for Industrial , Residential, Rural and other Areas		1.0 24 Hrs	20 Annual	6 Annual	1 Annual	4 1 Hr	180 1 Hr

Note : * Parameters monitored for period of 1 hr

Arushi Kousar
 ARSHIYA KOUSAR
 Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.
 Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES LLP)

Recognised by BIS, FSSAI, ISO:45001:2018 Certified Laboratory

Recognised by MoEFCC(CPCB) under E(P) Act 1986 recognition valid upto 23.05.2025

TEST REPORT

Table No. 4

AMBIENT AIR QUALITY

Name of the Client : M/s. Gogte Minerals
 Name of the Project : Redi Iron Ore Mine (203)
 Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)
 Station at & Code : A4 - Gaontala village
 Duration : 24 Hrs
 Issue Date : 03.07.2024
 Reference IS 5182 & Lab SOP

Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)	Ammonia (NH ₃), µg/m ³	Benzene (C ₆ H ₆), µg/m ³
07.06.2024	N/24/06/2-0163	9	14	44	24	<20	<1
08.06.2024	N/24/06/3-0075	11	13	38	18	<20	<1
14.06.2024	N/24/06/4-0180	7	9	50	24	<20	<1
15.06.2024	N/24/06/4-0217	9	12	42	26	<20	<1
17.06.2024	N/24/06/5-0032	11	13	55	29	<20	<1
18.06.2024	N/24/06/5-0073	7	10	53	27	<20	<1
24.06.2024	N/24/06/5-0395	7	9	36	18	<20	<1
25.06.2024	N/24/06/5-0506	10	13	48	25	<20	<1
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	400 24 Hrs	5 Annual

Date of Sampling	Lab Code	Lead (Pb), µg/m ³	Nickel (Ni), ng/m ³	Arsenic (As), ng/m ³	Benzo(a) Pyrene (BaP), ng/m ³	Carbon Monoxide* (CO), mg/m ³	Ozone* (O ₃), µg/m ³
07.06.2024	N/24/06/2-0163	0.18	<0.1	<0.5	<0.5	0.22	21
08.06.2024	N/24/06/3-0075	0.21	<0.1	<0.5	<0.5	0.28	25
14.06.2024	N/24/06/4-0180	0.18	<0.1	<0.5	<0.5	0.31	21
15.06.2024	N/24/06/4-0217	0.16	<0.1	<0.5	<0.5	0.26	26
17.06.2024	N/24/06/5-0032	0.15	<0.1	<0.5	<0.5	0.22	24
18.06.2024	N/24/06/5-0073	0.18	<0.1	<0.5	<0.5	0.26	21
24.06.2024	N/24/06/5-0395	0.10	<0.1	<0.5	<0.5	0.25	23
25.06.2024	N/24/06/5-0506	0.12	<0.1	<0.5	<0.5	0.42	21
Limits for Industrial , Residential, Rural and other Areas		1.0 24 Hrs	20 Annual	6 Annual	1 Annual	4 1 Hr	180 1 Hr

Note : * Parameters monitored for period of 1 hr

Arshiya Kousar

ARSHIYA KOUSAR
Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.
Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES LLP)

Recognised by BIS, FSSAI, ISO:45001:2018 Certified Laboratory

Recognised by MoEFCC(CPCB) under E(P) Act 1986 recognition valid upto 23.05.2025

TEST REPORT

Table No. 5

AMBIENT AIR QUALITY

Name of the Client : M/s. Gogte Minerals
 Name of the Project : Redi Iron Ore Mine (203)
 Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)
 Station at & Code : A5 - Kanyalwadi village
 Duration : 24 Hrs
 Issue Date : 03.07.2024
 Reference IS 5182 & Lab SOP

Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)	Ammonia (NH ₃), µg/m ³	Benzene (C ₆ H ₆), µg/m ³
07.06.2024	N/24/06/2-0164	7	11	40	24	<20	<1
08.06.2024	N/24/06/3-0076	11	13	50	26	<20	<1
14.06.2024	N/24/06/4-0181	11	14	39	18	<20	<1
15.06.2024	N/24/06/4-0218	9	12	50	29	<20	<1
17.06.2024	N/24/06/5-0033	7	10	47	26	<20	<1
18.06.2024	N/24/06/5-0074	6	9	50	29	<20	<1
24.06.2024	N/24/06/5-0396	9	12	30	18	<20	<1
25.06.2024	N/24/06/5-0507	9	10	39	15	<20	<1
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	400 24 Hrs	5 Annual

Date of Sampling	Lab Code	Lead (Pb), µg/m ³	Nickel (Ni), ng/m ³	Arsenic (As), ng/m ³	Benzo(a) Pyrene (BaP), ng/m ³	Carbon Monoxide* (CO), mg/m ³	Ozone* (O ₃), µg/m ³
07.06.2024	N/24/06/2-0164	0.18	<0.1	<0.5	<0.5	0.21	26
08.06.2024	N/24/06/3-0076	0.11	<0.1	<0.5	<0.5	0.32	20
14.06.2024	N/24/06/4-0181	0.15	<0.1	<0.5	<0.5	0.33	23
15.06.2024	N/24/06/4-0218	0.22	<0.1	<0.5	<0.5	0.28	20
17.06.2024	N/24/06/5-0033	0.31	<0.1	<0.5	<0.5	0.22	21
18.06.2024	N/24/06/5-0074	0.19	<0.1	<0.5	<0.5	0.20	21
24.06.2024	N/24/06/5-0396	0.18	<0.1	<0.5	<0.5	0.21	20
25.06.2024	N/24/06/5-0507	0.22	<0.1	<0.5	<0.5	0.25	21
Limits for Industrial , Residential, Rural and other Areas		1.0 24 Hrs	20 Annual	6 Annual	1 Annual	4 1 Hr	180 1 Hr

Note : * Parameters monitored for period of 1 hr

Arshiya Kousar

ARSHIYA KOUSAR
Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.
Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES LLP)

Recognised by BIS, FSSAI, ISO:45001:2018 Certified Laboratory

Recognised by MoEFCC(CPCB) under E(P) Act 1986 recognition valid upto 23.05.2025

TEST REPORT

Table No.6

AMBIENT AIR QUALITY

Name of the Client	: M/s. Gogte Minerals
Name of the Project	: Redi Iron Ore Mine (203)
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services)
Station at & Code	: A6 - Near NIMCO Gate - Tivrewadi, Redi village
Duration	: 24 Hrs
Issue Date	: 03.07.2024
Reference	IS 5182 & Lab SOP

Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)
07.06.2024	N/24/06/2-0165	9	18	55	30
08.06.2024	N/24/06/3-0077	10	13	46	25
14.06.2024	N/24/06/4-0182	13	14	50	24
15.06.2024	N/24/06/4-0219	9	11	54	32
17.06.2024	N/24/06/5-0034	13	15	43	20
18.06.2024	N/24/06/5-0075	9	11	54	28
24.06.2024	N/24/06/5-0397	10	13	49	24
25.06.2024	N/24/06/5-0508	11	12	46	22
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs

Arshiya Kousar

ARSHIYA KOUSAR
Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.
Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES LLP)

Recognised by BIS, FSSAI, ISO:45001:2018 Certified Laboratory

Recognised by MoEFCC(CPCB) under E(P) Act 1986 recognition valid upto 23.05.2025

TEST REPORT

Table No. 7

AMBIENT AIR QUALITY

Name of the Client : M/s. Gogte Minerals					
Name of the Project : Redi Iron Ore Mine (203)					
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)					
Station at & Code : A7 - Near Primary School - sakalhatwadi Redi village					
Duration : 24 Hrs					
Issue Date : 03.07.2024					
Reference IS 5182 & Lab SOP					
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)
07.06.2024	N/24/06/2-0166	10	13	33	19
08.06.2024	N/24/06/3-0078	6	9	41	21
14.06.2024	N/24/06/4-0183	7	16	48	25
15.06.2024	N/24/06/4-0220	12	15	41	28
17.06.2024	N/24/06/5-0035	10	11	45	26
18.06.2024	N/24/06/5-0076	14	16	40	26
24.06.2024	N/24/06/5-0398	12	15	40	22
25.06.2024	N/24/06/5-0509	11	15	39	18
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs

Arshiya Kousar

ARSHIYA KOUSAR
Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.
Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES LLP)

Recognised by BIS, FSSAI, ISO:45001:2018 Certified Laboratory

Recognised by MoEFCC(CPCB) under E(P) Act 1986 recognition valid upto 23.05.2025

TEST REPORT

Table No. 8

STATISTICAL AIR QUALITY DATA

Name of the : M/s. Gogte Minerals												
Name of the : Redi Iron Ore Mine (203)												
Month : June, 2024												
Station Code : A4 - Core Zone (ML Area, behind the Mines Office)					Station Code : A5 - Redi village				Station Code : A6 - Shiroda village			
	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	PM ₁₀	PM _{2.5}
Min.	6	9	36	20	6	9	30	18	6	9	40	15
10%	6	10	38	21	6	9	34	19	7	10	40	19
25%	6	10	41	25	6	11	38	21	7	10	41	22
50%	7	10	43	27	8	12	45	25	9	11	45	24
75%	7	10	49	28	11	12	52	27	10	12	50	26
98%	9	12	57	31	13	14	54	30	11	13	53	28
Max.	9	12	58	32	13	14	54	30	11	13	53	28
Avg.	7	10	45	26	9	11	44	24	9	11	46	23
SD	1	1	7	4	3	2	9	4	2	1	5	4
No. of obs	8				8				8			
Station Code : A7 - Gaontala village					Station Code : A8 - Kanyalwadi village							
	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	PM ₁₀	PM _{2.5}				
Min.	7	9	36	18	6	9	30	15				
10%	7	9	37	18	7	10	36	17				
25%	7	10	41	23	7	10	39	18				
50%	9	13	46	25	9	12	44	25				
75%	10	13	51	26	10	12	50	27				
98%	11	14	55	29	11	14	50	29				
Max.	11	14	55	29	11	14	50	29				
Avg.	9	12	46	24	9	11	43	23				
SD	2	2	7	4	2	2	7	5				
No. of obs	8				8							

Arshiya Kousar
ARSHIYA KOUSAR
Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES LLP)

Recognised by BIS, FSSAI, ISO:45001:2018 Certified Laboratory

Recognised by MoEFCC(CPCB) under E(P) Act 1986 recognition valid upto 23.05.2025

TEST REPORT

Table No. 9
Report No: N025024064

Name of the Client	: M/s. Gogte Minerals			
Name of the Project	: Redi Iron Ore Mine (203), village Redi, Vengurla taluka, Sindhudurg dist, Maharashtra State.			
Particulars of sample collected	: SW1 - Pit water			
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services)			
Date of sample collection	: 18.06.2024			
Lab Code	: N/24/06/4-0250			
Issue Date	: 26.06.2024			
Ref	: Environmental (P) Rules, 1986 SCHEDULE VI			
Sl. No.	Parameters	Results	General Standards For Effluent Discharge of Environmental Pollutants	Method of Testing
1	Colour (Hazen Units), & Odour	15	--	IS:3025(part-4) and IS 3025 (Part-5)
2	Suspended Solids (mg/l), Max	58	100	IS 3025 (P-17) 2022
3	Particle size of suspended solids	Pass through 850 micron	Shall Pass through 850 micron	IS 2488 (Part-1)
4	pH	6.84	5.5 to 9.0	IS 3025 (P-11) 2022
5	Temperature ° C	28	Shall not exceed 5° C above the receiving water temp	IS 3025 (P-9) 1984 RA2022
6	Oil & Grease (mg/l), Max	<1.0	10	IS 3025 (P-39) 2021
7	Total Residual Chlorine (mg/l), Max	<0.1	1.0	IS 3025 (P-26) 2021
8	Ammonical Nitrogen (mg/l), Max	<0.1	50	IS 3025 (P-34) 1988 RA2019
9	Total Kjeldahl Nitrogen (mg/l), Max	<0.5	100	IS 3025 (P-34) 1988 RA2019
10	Free Ammonia as NH ₃ (mg/l), Max	<0.1	5.0	IS 2488 (Part-IV)
11	BOD [3 days at 27°C] (mg/l), Max	<3	30	IS 3025 (P-44) 2014
12	COD (mg/l), Max	42	250	IS 3025 (P-58) 2006 RA2022
13	Arsenic as As (mg/l), Max	<0.002	0.2	IS 3025 (P-2) 2019
14	Mercury as Hg (mg/l), Max	<0.0005	0.01	IS 3025 (P-2) 2019
15	Lead as Pb (mg/l), Max	<0.005	0.1	IS 3025 (P-2) 2019
16	Cadmium as Cd (mg/l), Max	<0.001	2.0	IS 3025 (P-2) 2019
17	Hexavalent Chromium as Cr ⁺⁶ (mg/l), Max	<0.03	0.1	IS 3025 (P-52) 2014
18	Total Chromium as Cr(mg/l), Max	<0.03	2.0	IS 3025 (Part-52)
19	Copper as Cu (mg/l), Max	<0.005	3.0	IS 3025 (P-2) 2019
20	Zinc as Zn (mg/l), Max	<0.005	5.0	IS 3025 (P-2) 2019
21	Selenium as Se (mg/l), Max	<0.005	0.05	IS 3025 (P-2) 2019
22	Nickel as Ni (mg/l), Max	<0.001	3.0	IS 3025 (P-2) 2019
23	Cyanide as CN (mg/l), Max	<0.01	0.2	IS 3025 (P-27) Sec 1 2021
24	Fluoride as F (mg/l), Max	0.51	2.0	APHA23rd Edition 4500F
25	Dissolved Phosphates as PO ₄ (mg/l), Max	<0.05	5.0	IS 2488 (Part-IV)
26	Sulphide as S (mg/l), Max	<0.01	2.0	IS 3025 (P-29) 2022
27	Phenolic Compounds as C ₆ H ₅ OH (mg/l), Max	<0.001	1.0	IS 3025 (P-43) Sec 1 2022
28	Radio Active materials			
	a) Alpha Emitters (µcurie/ml), Max	NA	10 ⁻⁷	APHA 21 st
	b) Beta Emitters (µcurie/ml), Max	NA	10 ⁻⁵	APHA 21 st
29	Bio-assay test	90% survival of fish after 96 hrs	90% survival of fish after 96 hrs in 100% effluent)	IS 6582 (Part-1)
30	Manganese as Mn (mg/l), Max	<0.001	2	IS 3025 (P-2) 2019
31	Iron as Fe (mg/l), Max	0.064	3	IS 3025 (P-2) 2019
32	Vanadium as V (mg/l), Max	<0.001	0.2	IS 3025 (P-2) 2019
33	Nitrate Nitrogen (mg/l), Max	<0.1	10	IS 3025 (P-34) 1988 RA2019
34	Fixed Dissolved Solids (FDS) mg/l	542	--	IS 3025(P-18) 2022
35	Chlorides (as Cl), mg/l	87	--	IS 3025 (P-32) 1988 RA2019

END OF REPORT

ARSHIYA K OUSAR
Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES LLP)

Recognised by BIS, FSSAI, ISO:45001:2018 Certified Laboratory
Recognised by MoEFCC(CPCB) under E(P) Act 1986 recognition valid upto 23.05.2025

TEST REPORT

Table No. 10

Name of the Client	: M/s. Gogte Minerals
Name of the Project	: Redi Iron Ore Mine (203), village Redi, Vengurla taluka, Sindhudurg dist, MH State.
Particulars of sample collected	: SW2 - Kanyal tank water, SW3 - Nallah water Near Kanyalwadi SW4- Near Hanuman temple Kanyalwadi village
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services)
Date of sample collection	: 18.06.2024
Issue Date	: 26.06.2024
Ref:IS : 2296, 1982 Class C Norms (Stream Water Standards)	

Sl. No.	Lab Code	N/24/06/4-0251	N/24/06/4-0252	N/24/06/4-0253	Limits For Stream Water Standards	Method of Testing
	Sample Code	SW2	SW3	SW4		
	Parameters	Results				
1	Colour (Hazen Units), Max	5	5	5	300	IS:3025(Part-4)2021
2	pH	6.58	6.72	6.64	6.5 to 8.5	IS:3025(Part-11)2022
3	Dissolved Oxygen (as O ₂), mg/l	5.4	5	5.8	Min 4	IS:3025(Part-38)1989RA 2019
4	Oil and grease, mg/l, Max	<1.0	<1.0	<1.0	0.1	IS:3025(Part-39) 2021
5	Total Dissolved Solids (mg/l), Max	1210	990	580	1500	IS:3025(Part-16)2023
6	Nitrates (as NO ₃),mg/l, Max	32.6	8.5	4.2	50	IS:3025(Part-34)2024
7	Anionic detergents (as MBAS),mg/l, Max	<0.1	<0.1	<0.1	1.0	IS:3025(Part-68)2019
8	Copper (as Cu),mg/l, Max	<0.005	<0.005	<0.005	1.5	IS:3025(P-2) 2019
9	Chloride (as Cl),mg/l, Max	414.3	112.3	61.9	600	IS:3025(Part-32) ;1988RA2019
10	Fluoride (as F),mg/l, Max	0.50	0.40	0.20	1.5	APHA 23rd Edition 4500F
11	Iron (as Fe),mg/l, Max	<0.005	<0.005	<0.005	50	IS:3025(P-2) 2019
12	Phenolic compounds (as C ₆ H ₅ OH),mg/l, Max	<0.001	<0.001	<0.001	0.005	IS:3025(P-43)Sec 1 2022
13	Selenium (as Se), mg/l, Max	<0.005	<0.005	<0.005	0.05	IS:3025(P-2) 2019
14	Sulphates (as SO ₄),mg/l, Max	75.8	92.5	38.5	400	IS:3025(P-24)Sec 1 2022
15	Zinc (as Zn),mg/l, Max	<0.005	<0.005	<0.005	15	IS:3025(P-2) 2019
16	Cadmium (as Cd), mg/l, Max	<0.001	<0.001	<0.001	0.01	IS:3025(P-2) 2019
17	Cyanides (as CN), mg/l, Max	<0.01	<0.01	<0.01	0.05	IS:3025(P-27) Sec 12021
18	Lead (as Pb) mg/l, Max	<0.005	<0.005	<0.005	0.1	IS:3025(P-2) 2019
19	Total Arsenic as As (mg/l), Max	<0.002	<0.002	<0.002	0.2	IS:3025(P-2) 2019
20	Chromium (as Cr ⁺⁶), mg/l, Max	<0.03	<0.03	<0.03	0.05	IS:3025(P-52) 2014
21	Biochemical Oxygen Demand (as O ₂), mg/l	<3	<3	<3	3	IS:3025(P-44) 2023
22	Total Coliform, MPN/100ml, Max	177	109	109	5000	IS:1622:1981

"END OF REPORT"

BINU MANI

T.M. - Microbiology

Govt. Analyst / Authorised Signatory

ARSHIYA KOUSAR
Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in



ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES LLP)
 Recognised by BIS, FSSAI, ISO:45001:2018 Certified Laboratory
 Recognised by MoEFCC(CPCB) under E(P) Act 1986 recognition valid upto 23.05.2025

TEST REPORT

Table No. 11
Report No: N025424064

Name of the Client	: M/s. Gogte Minerals
Name of the Project	: Redi Iron Ore Mine (203), village Redi, Vengurla taluka, Sindhudurg dist, Maharashtra State.
Particulars of sample collected	: Sewage Water Sample
Date of sample collection	: 18.06.2024
Lab Code	: N/24/06/4-0254
Issue Date	: 26.06.2024
Ref	: Environmental (P) Rules, 1986 SCHEDULE VI

Sl. No.	Parameters	Results	General Standards For Effluent Discharge of Environmental Pollutants	Method of Testing
1	pH	6.94	6.5 -9.0	AOHA (23 rd Edition) 4500H* - B
2	Biochemical Oxygen Demand BOD ₃ 27 ^o C, mg/l	24	<30	IS 3025 (P-44) 1993
3	Total Suspended Solids, at 105 ^o C, mg/l	62	<100	AOHA (23 rd Edition) 2540 - D
4	Fecal Coliform (FC), MPN/100ml	63	<1000	APHA (23 rd Edition) 5520 - B

"END OF REPORT"

BINU MANI
T.M. - Microbiology
Govt. Analyst / Authorised Signatory

ARSHIYA KOUSAR
Dy. T.M. - Chemical
Govt. Analyst / Authorised Signatory

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.
Phone : 080-25432969 Tel/fax : 25432968. E-mail : mesbng@gmail.com, www.envtest.in